

Claims

1. A medicament dispenser for use in the delivery of a combination medicament product, the dispenser comprising

5 a first medicament container for containing a first medicament active component;

a first release means for releasing a dose portion of said first medicament active component from said first medicament container;

10 a second medicament container for containing a second medicament active component; and

a second release means for releasing a dose portion of said first medicament active component from said second medicament container,

wherein the first medicament active component is kept separate from the second medicament active component until the point of release thereof for delivery in combination, and wherein the first medicament active component is selected from  
20 the group consisting of salmeterol, formoterol and any salts or solvates thereof and the second medicament active component is selected from the group consisting of beclomethasone ester, fluticasone ester and any salts or solvates thereof.

2. A medicament dispenser according to claim 1, wherein the first medicament  
25 active component is selected from the group consisting of salmeterol xinafoate and formoterol fumarate.

3. A medicament dispenser according to either of claims 1 or 2, wherein the second medicament active component is selected from the group consisting of  
30 beclomethasone dipropionate and a fluticasone propionate.

4. A medicament dispenser according to any of claims 1 to 3, wherein the first medicament active component is salmeterol xinafoate and the second medicament active component is fluticasone propionate.

5 5. A medicament dispenser according to any of claims 1 to 3, wherein the first medicament active component is formoterol fumarate and the second medicament active component is fluticasone propionate.

6. A medicament dispenser according to any of claims 1 to 3, wherein the first  
10 medicament active component is formoterol fumarate and the second medicament active component is beclomethasone dipropionate.

7. A medicament dispenser according to any of claims 1 to 6, wherein each of the first and second medicament container are in the form of a unit dose container  
15 pack.

8. A medicament dispenser according to claim 7, wherein said unit dose container pack has capsule form.

20 9. A medicament dispenser according to claim 7, wherein said unit dose container pack has blister pack form.

10. A medicament dispenser according to claim 7, wherein said unit dose container pack has the form of a carrier onto which medicament has been applied by  
25 a process selected from the group consisting of printing, painting and vacuum occlusion.

11. A medicament dispenser according to any of claims 1 to 6, wherein each of the first and second medicament container are in the form of a reservoir form  
30 container pack for containing multiple dose portions of each active medicament component.

12. A medicament dispenser according to claim 11, including metering means for metering a dose portion of each medicament active from a reservoir container pack to a delivery position.

5 13. A medicament dispenser according to claim 12, wherein each metering means comprises a metering cup movable from a first position where said cup is filled with medicament from a reservoir container pack to a second position where the metered medicament dose portion in the cup is made available to the patient for inhalation.

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14. A medicament dispenser according to any of claims 1 to 6, wherein each of the first and second medicament containers comprises a multi-dose container pack containing multiple, defined dose portions of active medicament product.

15 15. A medicament dispenser according to claim 14, wherein said multi-dose container pack has multi-capsule form.

16. A medicament dispenser according to claim 14, wherein said multi-dose container pack has blister pack form.

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17. A medicament dispenser according to claim 16, wherein said multi-dose blister pack comprises plural blisters arranged in generally circular fashion on a disc-form blister pack.

25 18. A medicament dispenser according to claim 16, wherein said multi-dose blister pack comprises plural blisters arranged in series fashion on an elongate form carrier.

19. A medicament dispenser according to claim 14, wherein said multi-dose  
30 container pack has the form of a carrier onto which plural medicament dose portions

have been applied by a process selected from the group consisting of printing, painting and vacuum occlusion.

20. A medicament dispenser according to any of claims 7 to 19, wherein each of  
5 the first and second medicament active component are in pure drug form.

21. A medicament dispenser according to any of claims 7 to 19, wherein each of the first and second medicament active component are in dry powder form.

10 22. A medicament dispenser according to claim 21, wherein each dry powder form medicament active component is formulated with an excipient selected from the group consisting of a polysaccharide, lactose, glucose, mannitol, an amino acid, a maltodextrin, calcium carbonate, sodium chloride and any mixtures thereof.

15 23. A medicament dispenser according to any of claims 1 to 6, wherein each of the first and second medicament container are in the form of an aerosol container having a metering valve.

24. A medicament dispenser according to claim 23, wherein each said metering  
20 valve has a metering volume of from 10 to 100  $\mu$ l.

25. A medicament dispenser according to either of claims 23 or 24, wherein each medicament active component is formulated as an aerosol formulation comprising a fluorocarbon or hydrogen-containing chlorofluorocarbon propellant.

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26. A medicament dispenser according to claim 25, wherein each said aerosol formulation is substantially free of chlorofluorocarbons such as  $\text{CCl}_3\text{F}$ ,  $\text{CCl}_2\text{F}_2$  and  $\text{CF}_3\text{CCl}_3$ .

27. A medicament dispenser according to either of claims 25 or 26, wherein said propellant is selected from the group consisting of HFA-134a, HFA-227 and any mixtures thereof.

5 28. A medicament dispenser according to any of claims 25 to 27, wherein each said aerosol formulation additionally comprises a polar co-solvent.

29. A medicament dispenser according to claim 28, wherein said polar co-solvent is ethanol.

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30. A medicament dispenser according to any of claims 25 to 29, wherein each said aerosol formulation additionally comprises a surfactant.

31. A medicament dispenser according to any of claims 1 to 30, wherein said first  
15 and second release means are coupled.

32. A medicament dispenser according to any of claims 1 to 31, wherein the first and second medicament containers are sized and shaped to deliver equivalent dose portions.

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33. A medicament dispenser according to any of claims 1 to 31, wherein the first and second medicament containers are sized and shaped to deliver non-equivalent dose portions.

25 34. A medicament dispenser according to any of claims 1 to 33, in reloadable form.

35. A medicament dispenser according to claim 34, wherein the first and second medicament containers are comprised as a single refill cassette.

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36. A medicament dispenser according to claim 34, wherein the first and second medicament containers are comprised as separate refills.

37. Use of a medicament dispenser according to any of claims 1 to 36 for  
5 dispensing a combination medicament product.